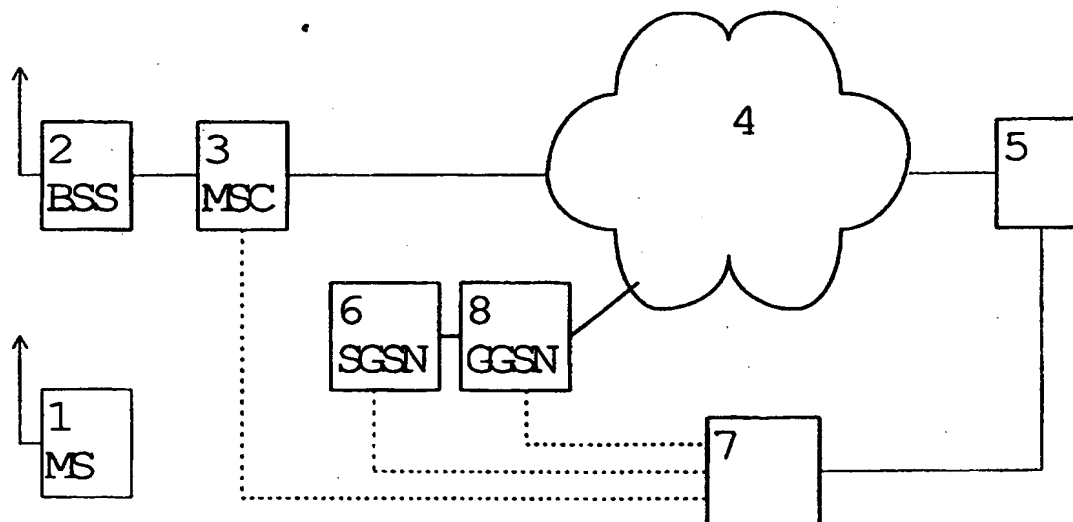




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/EP98/04132 (22) International Filing Date: 29 June 1998 (29.06.98) (71) Applicant (for all designated States except US): NOKIA NETWORKS OY [FI/FI]; P.O. Box 300, FIN-00045 Nokia Group (FI). (72) Inventors; and (75) Inventors/Applicants (for US only): HAUMONT, Serge [FR/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI). KARI, Hannu [FI/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI). KAN-ERVA, Mikko [FI/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI). (74) Agent: PELLMANN, Hans-Bernd; Tiedtke-Bühling-Kinne et al, Bavariaring 4, D-80336 München (DE).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: METHOD AND SYSTEM OF PROVIDING A SERVICE TO A SUBSCRIBER

**(57) Abstract**

System and method for providing a service to a subscriber in a network. A specific network information of a mobile station (1) is provided to a service provider (5) which generates an individual service message on the basis of the provided network information. The provision of the network information may be dependent on a predetermined subscriber condition. Thus, the service message can be transmitted to predetermined subscribers without requiring the subscriber to generate and transmit the specific network information to the service provider (5).

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5 Method and system of providing a service to a subscriber

10 FIELD OF THE INVENTION

10 The present invention relates to a method and system for
providing a service to a subscriber in a network, especially
a cellular network like a GSM (Global System for Mobile
Communication) or a GPRS (General Packet Radio Services)
15 network.

BACKGROUND OF THE INVENTION

20 There are cases where a service provider requires information
about the location of a mobile station of a cellular network
so as to provide a specific local service or push service.
Such services could be an advertisement or a local map
depending on the location of the mobile station.

25 So far, the service provider requiring the location of a
mobile station had to rely on an information transmitted by
the mobile station at an application level, if available.
This information was usually based on a location measurement
using for example a GPS (Global Positioning System).

30 Thus, the provision of a service related to the location of
the mobile station was restricted to those cases where the
mobile station is capable of providing the required location
information.

35

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a method and system for selectively providing a subscriber-specific
5 service to a subscriber in a cellular network.

This object is achieved by a method for providing a service to a subscriber in a network, comprising the steps of providing a network information of the subscriber to a
10 service provider; generating a service message on the basis of the provided network information; and transmitting the service message to the subscriber.

Furthermore, the above object is achieved by a system for
15 providing a service to a subscriber in a network, comprising providing means for providing a network information of the subscriber to a service provider; and control means for controlling the provision of the network information to the service provider in dependence on a predetermined subscriber
20 condition.

Preferably, the network information relates to an identity, a location, an address and/or an operating state of a mobile station of the subscriber in a cellular network. The location
25 information may be derived from a data base for converting a cell identification of the mobile station into a location thereof.

The providing means may comprises a transmitting means for
30 transmitting the network information of the subscriber to the service provider, wherein the control means controls the transmitting operation in dependence on the predetermined subscriber condition.

35 Alternatively, the providing means may comprise a storing means in which the network information of the subscriber is stored and which is accessible to the service provider, wherein the control means controls the storing operation in dependence on the predetermined subscriber condition. The

provider of the external message may read the storing means by using a predetermined key relating to the subscriber, i.e. an IMSI or a PDP address.

- 5 The service message could be a local advertisement, a stock price change, or a header of an unread mail stored in a mail server, wherein the message is preferably transmitted when said mobile station is reachable according to the network information. Also, the service message could be any message
10 (mail) stored in a server and delivered to the mobile station when an indication that the mobile station is reachable has been received.

- The predetermined subscriber condition may be a request from
15 the subscriber, wherein the network operator may receive the request which may include a service provider address, retrieve location coordinates of the subscriber on the basis of a cell identification, and transmit the location coordinates to the service provider using the received
20 address. The request may be set by the mobile station or by the network operator.

- The predetermined subscriber condition is relevant for a subscriber and can be set by the subscriber or the operator.
25 It specifies which entity is allowed to access which subscriber information.

- The network information of the subscriber can be transmitted in a header of a packet transmitted by the subscriber. The
30 network information may further be inserted by a network element in a second packet which encapsulates the packet transmitted by the mobile station.

- Other predetermined subscriber conditions may be a
35 subscription parameter of the subscriber, an activation of a predetermined supplementary service, the location of the mobile station in a predetermined routing area or a cell, or the fact that the subscriber is located in its home area.

Accordingly, a subscriber-specific service message based on the provided network information of the subscriber can be transmitted by the service provider to any desired mobile station of the cellular network, since the mobile station is not required to generate and transmit a specific information relating to its location, identity or operating state. Since the provision of the individual network information can be controlled in dependence on a predetermined subscriber condition, the service can be restricted to selected ones of the subscribers.

BRIEF DESCRIPTION OF THE DRAWING

In the following, the invention will be described in greater detail on the basis of a preferred embodiment with reference to the accompanying drawing, which shows a system according to the present invention, wherein a GPRS network is connected via an IP or PSTN or ISDN network to a service provider.

DESCRIPTION OF THE PREFERRED EMBODIMENT

In the figure, a system for providing an external message to a subscriber is shown, comprising a GPRS network having a mobile station MS 1 radio-connected to a base station subsystem BSS 2. The BSS 2 is connected via a mobile switching center MSC 3 to a network 4, which could be any network like a PSTN, ISDN or Internet, to which one or a plurality of service providers 5 is connected. Alternatively, the service provider 5 may as well be directly connected to network nodes (MSC 3, Serving GPRS Support Node SGSN 6, Gateway GPRS Support Node GGSN 8) of the GSM or GPRS network.

Furthermore, a providing means 7 used for externally providing a network information of the mobile station is connected to a network element (MSC 3, SGSN 6, GGSN 8). Additionally, the providing means 7 may be connected to the network 4. The providing means 7 can be accessed by the service provider 5 and can request information from a network element like the MSC 3, the SGSN 6 and/or the GGSN 8.

Alternatively, the providing means 7 may be a database type of equipment which is automatically updated by network elements. Moreover, the providing means 7 may be integrated in a network element.

5

Within a cellular network like the GSM or GPRS, information related to a mobile station of a subscriber are known. Such a network information may comprise an identity (e.g. International Mobile Subscriber Identity (IMSI) or Internet Protocol address (IP address)), a location information (e.g. cell or routing area) and an operating state indicating whether the mobile station reachable (e.g. Packet Data Protocol (PDP) context activated or not).

15 The GPRS network transmits the network information to the service provider 5 in dependence on a predetermined subscriber condition. The subscriber condition could be a context activation, a subscription parameter, the use of a given supplementary service, a cell identification indicating
20 a certain routing area, the fact that the mobile station 1 is in its home area (HPLMN), or a specific request from the mobile station 1, or a combination of the above conditions.

According to a first example, the providing means 7 could be
25 implemented as a part of the GGSN 8. In this case, the system operates as follows.

The service provider 5 informs the providing means 7 in the GGSN 8 that a message is waiting to be delivered to the MS 1.
30 The providing means 7 stores the information that this service provider 5 (characterized by its service provider address) must be informed when the MS 1 becomes reachable. When the GGSN 8 detects that the MS 1 is reachable (PDP context activation or alert from Home Location Register HLR),
35 the GGSN 8 informs the service provider 5 that this MS 1 is reachable.

According to a second example, the providing means 7 may be distributed. In this case, the MS 1 could include a means for

determining the need of sending a specific network information (e.g. location) to the service provider 5. The SGSN 6 comprises a means for receiving a request from the MS 1, retrieving the network information needed, and forwarding the request and the relevant network information to a relevant means, i.e. the GGSN 8 (but it could also be the MS 1 or the service provider 5).

In case the mobile station 1 issues a request to provide a location information to the service provider 5, the service provider 5 is identified with its address, i.e. an IP address of the IP network 4. This request is transmitted to the SGSN 6 which then retrieves the network information of the MS 1 by means of the cell identification thereof. Typically, a data base could be provided for converting the cell identification of the MS 1 into geographical coordinates. Then, the location information and IMSI of the MS 1 and the address of the service provider 5 are forwarded by the SGSN 6 to the GGSN 8, i.e. providing means 7.

20

Subsequently, the GGSN 8 transmits the location information and the IMSI of the mobile station 1 via the network 4 to the service provider 5 by using the service provider address. Thus, the service provider 5 may generate the corresponding individual service message and transmit it to the identified MS 1 by using the corresponding IMSI address thereof.

25

As an alternative, the SGSN 6 could send the network information to the MS 1 (after a request from the MS 1), such that the network information of the MS 1 could be included in every packet transmitted by the MS 1. The location information could be added, for example, to a Ipv6 header of the mobile station packets.

30

Another option could be a "tunnel" between the GGSN and the service provider 5, so that each packet is encapsulated in a second packet and the network information (e.g. IMSI and location) is transmitted by the GGSN in the header of the second packet.

35

According to a third example, the providing means 7 may comprise a data base in which a certain network information of the MS 1 is stored, if one or a combination of the above defined predetermined subscriber conditions is fulfilled. A corresponding predetermined service provider 5 may obtain an allowance to access the data base.

If the predetermined subscriber condition is fulfilled, e.g. the MS 1 is in its home area, the SGSN 6 will store a certain network information of the MS 1, i.e. location, PDP address used, IMSI, reachability, in the database.

Accordingly, the service provider 5 may access the data base by typically using the PDP address of the MS 1 as a key (or the IMSI), so as to obtain the desired information about the MS 1 and to generate and transmit the individual service message to the MS 1.

In summary, a system and method for providing a service to a subscriber in a cellular network is described. A specific network information of a mobile station is provided to a service provider which generates an individual service message on the basis of the provided network information. The provision of the network information may be dependent on a predetermined subscriber condition. Thus, the service message can be transmitted to predetermined subscribers without requiring the subscriber to generate and transmit the specific network information to the service provider.

30

It should be understood that the above description and the accompanying figure are only intended to illustrate the present invention. Thus, the method and system according to the invention may also be used in systems other than the described GPRS system. The preferred embodiment of the invention may vary within the scope of the attached claims.

35

Claims:

1. A method for providing a service to a subscriber in a
5 network, comprising the steps of:
 - a) providing a network information of the subscriber to a service provider;
 - b) generating a service message on the basis of the provided network information; and
 - 10 c) transmitting the service message to the subscriber.
2. A method according to claim 1, wherein said network information relates to at least one of an identity, a location, an address, and an operating state of a mobile
15 station of the subscriber in a cellular network.
3. A method according to claim 1 or 2, wherein said service message is a local advertisement.
- 20 4. A method according to claim 1 or 2, wherein said service message is a header of an unread mail stored in a mail server.
5. A method according to claim 1 or 2, wherein said service
25 message is a stock price change.
6. A method according to any one of claims 2 to 5, wherein said service message is transmitted when said mobile station is reachable according to the network information.
30
7. A method according to any one of claims 2 to 6, wherein the network information of the subscriber is transmitted by a network operator to the provider of the external message in dependence on a predetermined subscriber condition.
35
8. A method according to claim 7, wherein said predetermined subscriber condition is a request from the subscriber.

9. A method according to claim 8, wherein said request is set by the mobile station.

10. A method according to claim 8, wherein said request is
5 set by a network operator.

11. A method according to claim 8 or 9, wherein a network operator receives the request including a service provider address, retrieves location coordinates of the subscriber on
10 the basis of a cell identification, and transmits the location coordinates to the service provider using the received address.

12. A method according to any one of claims 2 to 11, wherein
15 the network information of the subscriber is transmitted in a header of a packet transmitted by the mobile station.

13. A method according to claim 12, wherein the network information is inserted by a network element in a second
20 packet which encapsulates the packet transmitted by the mobile station.

14. A method according to any one of claims 1 to 6, wherein the network information of the subscriber is stored in a
25 storing means in dependence on a predetermined subscriber condition, and wherein said storage means is accessible to the service provider.

15. A method according to claim 14, wherein the service
30 provider reads the storing means by using a predetermined key relating to the subscriber.

16. A method according to claim 14 or 15, wherein said
35 predetermined subscriber condition is a request from the subscriber.

17. A method according to claim 7, 14 or 15, wherein said predetermined subscriber condition is a subscription parameter of the subscriber.

18. A method according to claim 7, 14 or 15, wherein said predetermined subscriber condition is an activation of a predetermined supplementary service.

5

19. A method according to claim 7, 14 or 15, wherein said predetermined subscriber condition is the fact that the subscriber is located in his home area.

10 20. A system for providing a service to a subscriber in a network, comprising:
a) providing means (7) for providing a network information of the subscriber to a service provider (5); and
b) control means (6) for controlling the provision of the
15 network information to the service provider (5) in dependence on a predetermined subscriber condition.

21. A system according to claim 20, wherein the network information relates to at least one of an identity, a
20 location and an operating state of a mobile station (1) of the subscriber in a cellular network.

22. A system according to claim 21, further comprising a data base for converting a cell identification of the mobile
25 station (1) into allocation thereof.

23. A system according to any one of claims 20 to 22, wherein the providing means (7) comprises a transmitting means for transmitting the network information of the
30 subscriber to the service provider (5), wherein the control means (6) controls the transmitting operation in dependence on the predetermined subscriber condition.

24. A system according to any one of claims 20 to 22,
35 wherein the providing means (7) comprises a storing means in which the network information of the subscriber is stored and which is accessible to the service provider (5), wherein the control means (6) controls the storing operation in dependence on the predetermined subscriber condition.

25. A system according to any one of claims 20 to 24,
wherein said predetermined subscriber condition is a request
from the subscriber.

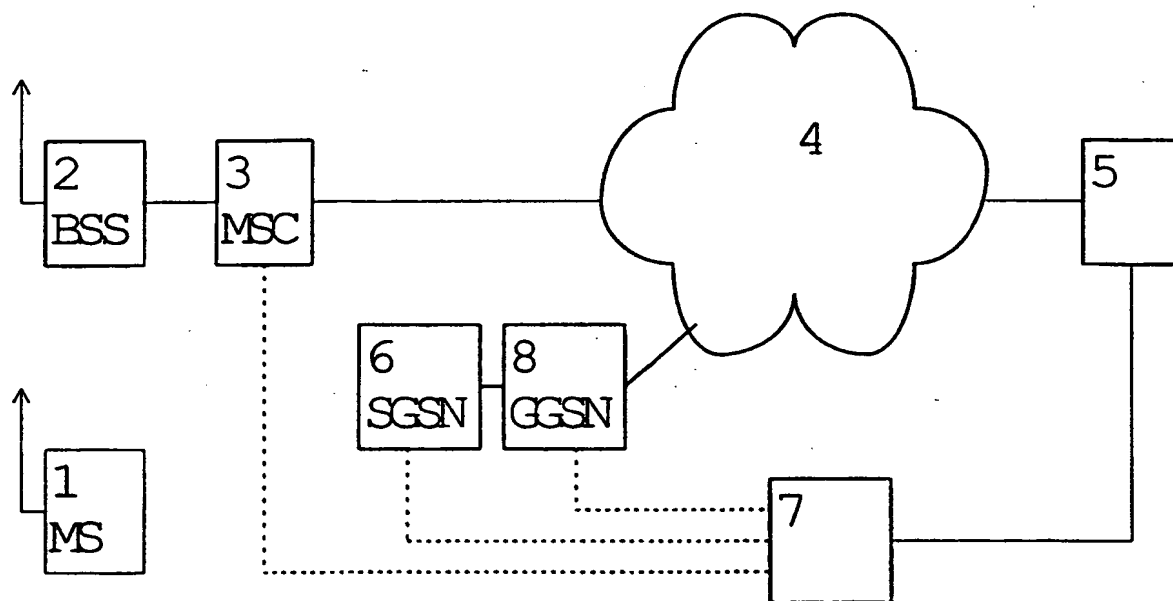
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26. A system according to any one of claims 20 to 24,
wherein said predetermined subscriber condition is a
subscription parameter of the subscriber.

10 27. A system according to any one of claims 20 to 24,
wherein said predetermined subscriber condition is an
activation of a predetermined supplementary service.

28. A system according to any one of claims 20 to 24,
15 wherein said predetermined subscriber condition is the fact
that the subscriber is located in his home area.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 98/04132

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q7/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 21913 A (ERICSSON GE MOBILE INC) 22 May 1998	1-3, 5-10, 14, 16, 20-25
A	see page 2, line 35 - page 6, line 9	11, 12, 18, 19, 27, 28
X	WO 93 01665 A (MOTOROLA INC) 21 January 1993	1-3, 5, 6, 14, 16, 20-25
A	see page 6, line 13 - page 11, line 2 see page 14, line 8 - page 14, line 17 see page 15, line 25 - page 20, line 15	7-11, 19, 28
X	EP 0 647 076 A (COFIRA SA) 5 April 1995	20-22
A	see column 7, line 30 - column 12, line 13	1, 2, 6, 7, 14, 23, 24
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Maalismaa, J

INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 777 394 A (ALCATEL BELL NV)</p> <p>4 June 1997</p> <p>see column 5, line 52 - column 9, line 38</p> <p>-----</p>	

INTERNATIONAL SEARCH REPORT

information on patent family members

Inte. onal Application No

PCT/EP 98/04132

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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p>(21) International Application Number: PCT/EP98/04132</p> <p>(22) International Filing Date: 29 June 1998 (29.06.98)</p> <p>(71) Applicant (for all designated States except US): NOKIA NETWORKS OY [FI/FI]; P.O. Box 300, FIN-00045 Nokia Group (FI).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): HAUMONT, Serge [FR/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI). KARI, Hannu [FI/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI). KANERVA, Mikko [FI/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI).</p> <p>(74) Agent: PELLMANN, Hans-Bernd; Tiedtke-Bühling-Kinne et al, Bavariaring 4, D-80336 München (DE).</p> </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report.</p> </td> </tr> </table>			<p>(21) International Application Number: PCT/EP98/04132</p> <p>(22) International Filing Date: 29 June 1998 (29.06.98)</p> <p>(71) Applicant (for all designated States except US): NOKIA NETWORKS OY [FI/FI]; P.O. Box 300, FIN-00045 Nokia Group (FI).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): HAUMONT, Serge [FR/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI). KARI, Hannu [FI/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI). KANERVA, Mikko [FI/FI]; Nokia Networks OY, P.O. Box 300, FIN-00045 Nokia Group (FI).</p> <p>(74) Agent: PELLMANN, Hans-Bernd; Tiedtke-Bühling-Kinne et al, Bavariaring 4, D-80336 München (DE).</p>	<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report.</p>
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<p>(54) Title: METHOD AND SYSTEM OF PROVIDING A SERVICE TO A SUBSCRIBER</p> <div style="text-align: center; margin: 20px 0;"> </div>				
<p>(57) Abstract</p> <p>System and method for providing a service to a subscriber in a network. A specific network information of a mobile station (1) is provided to a service provider (5) which generates an individual service message on the basis of the provided network information. The provision of the network information may be dependent on a predetermined subscriber condition. Thus, the service message can be transmitted to predetermined subscribers without requiring the subscriber to generate and transmit the specific network information to the service provider (5).</p>				

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